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Today: Implementing a library sort routine.¹. **Next class**: Writing exercise.

- 1. List the members of your group below. Underline your name.
- 2. Explain the type of the qsort function noted in the footnote on the second page of the paper.

3. What are the semantic requirements that the third argument of the above function must meet?

4. Prove the two performance claims found below the listing of *iisort*.

¹Jon L. Bentley and M. Douglas McIlroy, "Engineering a Sort Function," *Software–Practice and Experience* 23/11 (1993).

5. Is it possible to swap the contents of two bytes without using any other memory locations (including registers)?

6. Explain the ninther routine, its significance, and the significance of its choice of the constants 8 and 40.

7. Define the Dutch National Flag problem and explain its significance for quicksort.

8. Comment on the suitability of a cost model similar to the one used in the paper for your own Capstone project. Are there better alternatives? Which one will you use?